

**FIG. 1****NUCLEOTIDE AND AA SEQUENCE**

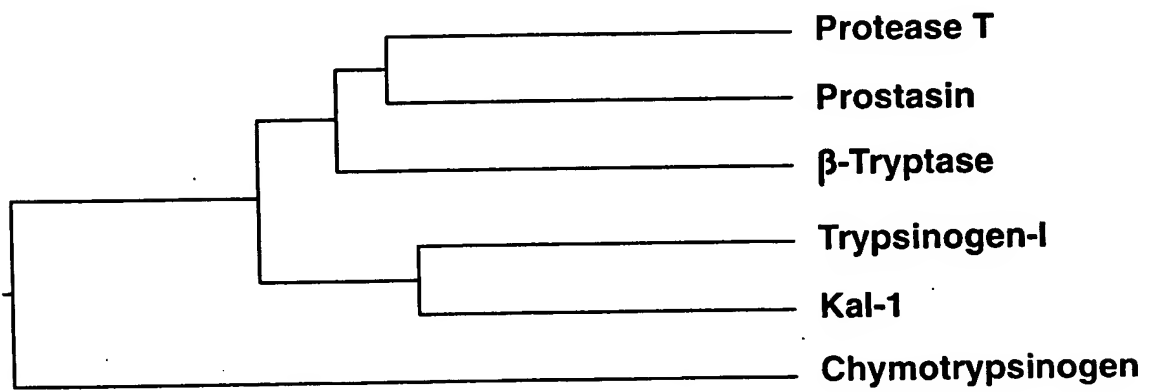
Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGCGGCCGGCGGCGGTGCCGC  
TCCTGCTGCTGCTGTGTGTTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCGCC  
CCAGGATGCTGAACCGAATGGTGGGCGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC  
AAGTCAGCATCCAGCGCAACGGAAGCCACTTCTGCGGGGGCAGCCTCATCGCGGAGCAGT  
GGGTCCCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAGGTCC  
TGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGACCACACGCTATGTATGCCCGGGTGAGGC  
AGGTGGAGAGCAACCCCTGTACCAGGGCACGGCTCCAGCGCTGACGTGGCCCTGGTGG  
AGCTGGAGGCACCAGTGGCCCTTACCAATTACATCCTCCCCGTGTGCCTGCCTGACCCCT  
CGGTGATCTTTGAGACGGGCATGAACTGCTGGGTCACTGGCTGGGGCAGCCCCAGTGAGG  
AAGACCTCCTGCCCCGAACCGCGGATCCTGCAGAACTCGCTGTGCCCATCATCGACACAC  
CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTTGGCTACCAACCCAAAACCATCA  
AGAATGACATGCTGTGCGCCGGCTTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT  
CGGGCGGCCCCCTGGTGTGCCTCGTGGGTCACTCGTGGCTGCAGGCGGGGGTGATCAGCT  
GGGGTGAGGGCTGTGCCCGCCAGAACCGCCCAGGTGTCTACATCCGTGTACCGCCACC  
ACAAGTGAGACCCCCGGGGCCAGGAGCCCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCG  
CCCACACCATCCTGCTGGTCCTCCCAGCGCTGCTGTTGCACCTGTGAGCCCCACCAGACT  
CATTTGTAAATAGCGCTCCTTCCCTCCCCTCTCAAATACCCCTTATTTTATTTATGTTTCTC  
CCAATAAAAACCCAGCCTGTGTGCCAGCTG

&gt;Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

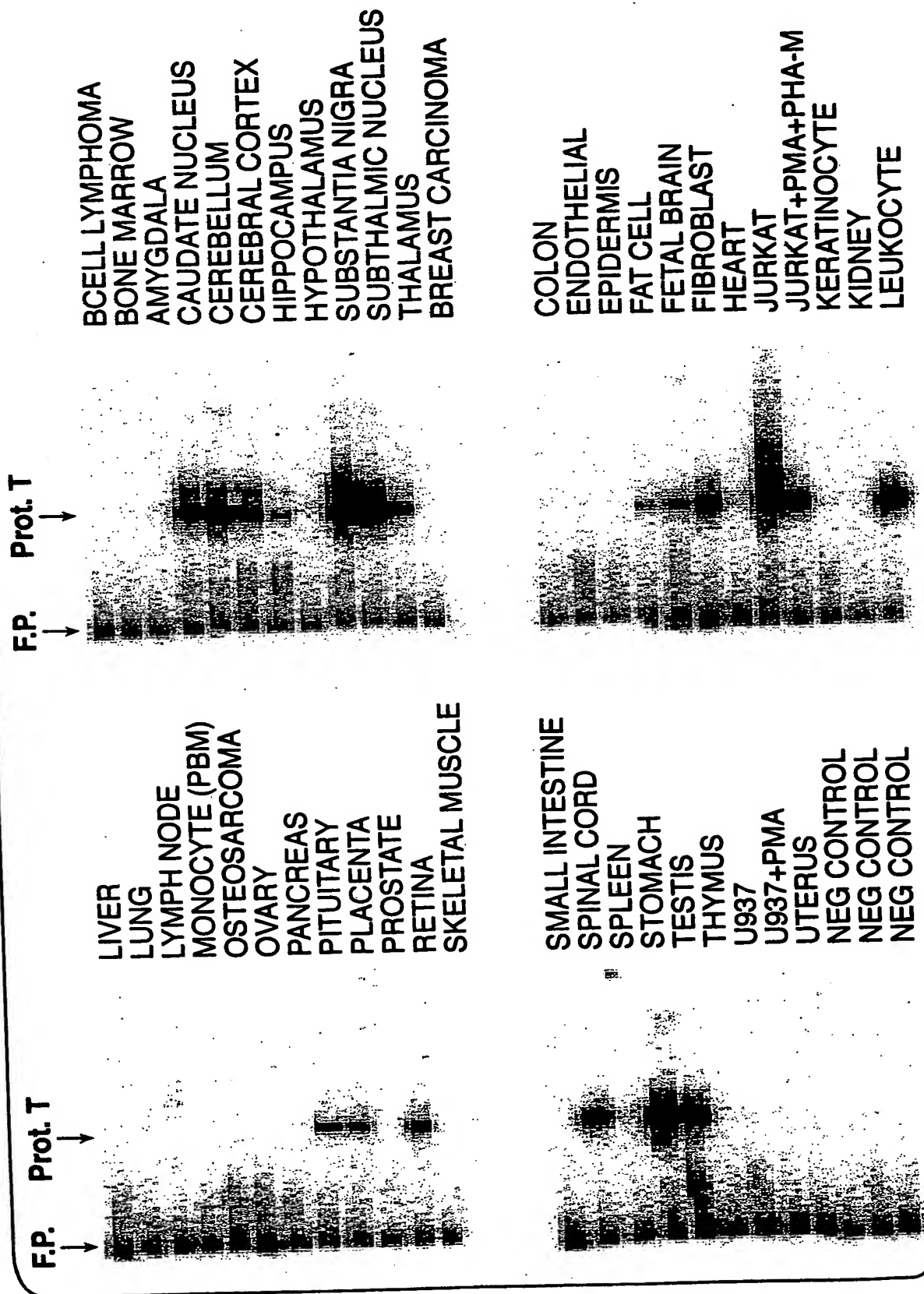
MRRPAAVPLLLLLCFGSQRAKAATACGRPRMLNRMVGGQDTQEGEWPVQVSIQRNGSHFC  
GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGT  
SSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGWGSPSEEDLLPEPRILQK  
LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS  
WLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

**FIG. 2**



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FIG. 3



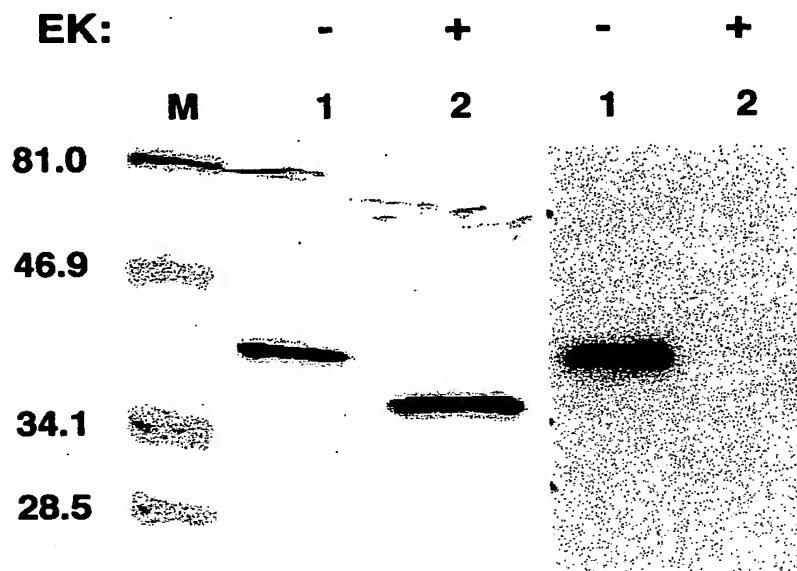
**FIG. 4****FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:8).

GAATTCACCACCATGGACAGCAAAGGTTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG  
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGACGAC  
GTGGACGCGGCCGCTCTTGTGCCCCCTTTGATGATGATGACAAGATCGTTGGGGGCTAT  
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGCAACGGAAGCCACTTC  
TGC GG GGGG CAG CCT CAT CG CG GAG CAG TGG GT C C T G A C G G C T G C G C A C T G C T T C C G C A A C  
A C C T C T G A G A C G T C C C T G T A C C A G G T C C T G C T G G G G G C A A G G C A G C T A G T G C A G C C G G G A  
C C A C A C G C T A T G T A T G C C C G G G T G A G G C A G G T G G A G A G C A A C C C C C T G T A C C A G G G C A C G  
G C C T C C A G C G C T G A C G T G C C C C T G G T G G A G C T G G A G G C A C C A G T G C C C T T C A C C A A T T A C  
A T C C T C C C C G T G T G C C T G C C T G A C C C C T C G G T G A T C T T T G A G A C G G G C A T G A A C T G C T G G  
G T C A C T G G C T G G G G C A G C C C C A G T G A G G A A G A C C T C C T G C C C G A A C C G C G G A T C C T G C A G  
A A A C T C G C T G T G C C C A T C A T C G A C A C A C C C A A G T G C A A C C T G C T C T A C A G C A A A G A C A C C  
G A G T T T G G C T A C C A A C C C A A A A C C A T C A A G A A T G A C A T G C T G T G C G C C G G C T T C G A G G A G  
G G C A A G A A G G A T G C C T G C A A G G G C G A C T C G G G C G G C C C C C T G G T G T G C C T C G T G G G T C A G  
T C G T G G C T G C A G G C G G G G G T G A T C A G C T G G G G T G A G G G C T G T G C C C G C C A G A A C C G C C C A  
G G T G T C T A C A T C C G T G T C A C C G C C C A C C A C A A C T G G A T C C A T C G G A T C A T C C C C A A A C T G  
C A G T T C C A G C C A G C G A G G T T G G G C G G C C A G A A G T C T A G A C A T C A C C A T C A C C A T C A C T A G  
C G G C C G C T T C C C T T T A G T G A G G G T T A A T G C T T C G A G C A G A C A T G A T A A G A T A C A T T G A T G  
A G T T T G G A C A A A C C A C A A C T A G A A T G C A G T G A A A A A A A T G C T T T A T T T G T G A A A T T T G T G  
A T G C T A T T G C T T T A T T T G T A A C C A T T A T A A G C T G C A A T A A C A A G T T G A C

Amino Acid sequence of PFEK-PROTT-HIS fusion protein  
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDKIVGGYALEE  
GEWPWQVSIQRNGSHFCGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM  
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW  
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKD  
ACKGDSGGPLVCLVGQSWLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPKLQFQP  
ARLGGQKSRHHHHHH

**FIG. 5**

**Protease: PFEK-Protease T-HIS**

**FIG. 6****Protease Activity of Protease T**

- H-D-Pro-HHT-Arg-pNA  
▤ H-D-Lys(CBO)-Pro-Arg-pNA  
▨ H-DL-Val-Leu-Arg-pNA

